

$$\sin \frac{\pi}{4} + \cos \frac{\pi}{4} = \frac{\sqrt{r}}{r} + \frac{1}{1} = \frac{\sqrt{r} + 1}{r} = r \left(\frac{\sqrt{r} + 1}{r} \right)^r - r \left(\frac{\sqrt{r} + 1}{r} \right) = \frac{r + r\sqrt{r}}{r} - r\sqrt{r} - r$$

$$r\sqrt{r} + r\sqrt{r} - r\sqrt{r} - r = \boxed{-\frac{1}{r}}$$

$$f(f(a)) = a \quad f(a) = \frac{a+1}{a-1} \quad f\left(\frac{a+1}{a-1}\right) = \frac{\frac{a+1}{a-1} + 1}{\frac{a+1}{a-1} - 1} = \frac{\frac{a+1+a-1}{a-1}}{\frac{a+1-a+1}{a-1}} = \frac{2a}{2} = a$$

$$\frac{ra}{a-1} = a \quad \frac{ra}{a-1} = \frac{ra}{a-1} \quad \text{and} \quad \frac{n+1}{n-1} \quad \boxed{\mathbb{R} - \{1\}}$$

$$g(a) = \sqrt{a^r - 1} / f(\sqrt{a^r - 1}) = \sqrt{a^r - 1} / \left(\frac{\sqrt{a^r - 1} + 1}{\sqrt{a^r - 1} - 1} \right) = 0$$

$$|a^r - 1| = r \quad \leftarrow \quad \sqrt{a^r - 1} = r \quad \leftarrow \quad (\sqrt{a^r - 1} - r)^r = 0$$

$$a^r - 1 = r \quad a^r = 0 \quad \boxed{a = \pm \sqrt{r}}$$

$$a^r - 1 = -r \Rightarrow a^r = -r \quad \times$$

$$m^r - dm + g = (m-r)(m-r) = f(m+r) \quad \boxed{m=1} \quad m+r = r \Rightarrow 1-d+g = \frac{r}{m-r} = -r$$

$$r^r \times r = \boxed{1^r r}$$

$$r \cos^r m + d \cos m = r, d \quad r \cos^r m + d \cos m - r, d = 0 \quad \Delta = 1 / \sqrt{d} = 9 \quad \frac{-d \pm 9}{1} \Rightarrow \frac{1}{r} \text{ and } -\frac{1}{r}$$

$$\cos m = x \quad \boxed{r} = (\sqrt{r})^r \leftarrow \tan^r \frac{\pi}{4} \quad \leftarrow \quad m = \frac{\pi}{4} \quad \leftarrow \quad \cos \frac{\pi}{4} = \frac{1}{\sqrt{r}} \quad \cos m = \frac{1}{r} \checkmark$$

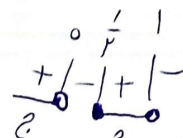
$$\cos m = -\frac{1}{r} \quad \times$$

۱۹، ۰۶، ۵۵

به نام کسی که از نسبت محیط به قطر دایره آنگاه است.

محمد جواد کریمی

$$\frac{n-1}{n} - \frac{n}{n-1} \geq 0 \Rightarrow \frac{n^2 + 1 - 2n - n^2}{n^2 - n} \geq 0 \Rightarrow \frac{1-2n}{n^2-n} \geq 0$$



$$(-\infty, 0) \cup [1/n, 1)$$

$$\frac{n-2n-1}{n^2+n} = \frac{-2-n}{n^2+n} = \frac{-2-n}{n(n+1)} \rightarrow 0, -1$$

$$\frac{3n+4+n-1}{n^2-2+n} = \frac{4n+3}{n^2+n-2} = \frac{4n+3}{(n-1)(n+2)} \rightarrow -\frac{3}{2}$$



$$\mathbb{R} - \{-2, -\frac{3}{2}, -1, 0, 1/n, 1\}$$

$$\left(\left(\frac{1}{n}\right)^n - 9\right)(3n^2 - n^3) \geq 0 \Rightarrow \frac{1}{n} - \frac{1}{n+1} \geq 0$$

$$\frac{1}{n} - \frac{1}{n+1} \geq 0 \Rightarrow \frac{n+1-n}{n(n+1)} \geq 0 \Rightarrow \frac{1}{n(n+1)} \geq 0$$

$$\frac{1}{n} - \frac{1}{n+1} \geq 0 \Rightarrow \frac{1}{n} \geq \frac{1}{n+1} \Rightarrow n \leq n+1$$

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$$(-\infty, -2] \cup [2, +\infty)$$

$$\sqrt{y+1} = \sqrt[n]{n-1} \Rightarrow y+1 = 9 + \sqrt{n-1} - \sqrt[n]{n-1}$$

$$n \geq 1$$

$$\frac{n^2-1}{n^2-n-2} \geq 0 \Rightarrow \frac{(n-1)(n+1)}{(n-2)(n+1)} \geq 0 \Rightarrow \frac{n-1}{n-2} \geq 0$$

$$(-\infty, -1) \cup (2, +\infty)$$

$$3n^2 + an + 1 \geq 0 \Rightarrow \frac{1}{n} - \frac{1}{n+1} \geq 0$$

$$\frac{1}{n} - \frac{1}{n+1} \geq 0 \Rightarrow \frac{1}{n} \geq \frac{1}{n+1} \Rightarrow n \leq n+1$$

$$-1 - 2a + 1 = 0 \Rightarrow -2a = 0 \Rightarrow a = 0$$

$$-1 - 2a + 1 = 0 \Rightarrow -2a = 0 \Rightarrow a = 0$$

$$\frac{1}{n} - \frac{1}{n+1} = \frac{n+1-n}{n(n+1)} = \frac{1}{n(n+1)}$$

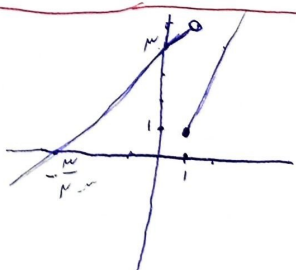
$$\frac{1}{n} - \frac{1}{n+1} = \frac{1}{n(n+1)} \Rightarrow \frac{1}{n} \geq \frac{1}{n+1} \Rightarrow n \leq n+1$$

$$n+1 \Rightarrow n = \sqrt[n]{n+1} \Rightarrow n \leq n+1$$

$$n \geq -\sqrt[n]{n+1}$$

$$f(n) - n \geq 0$$

$$g \geq \sqrt[n]{n}$$



$$n-2 \Rightarrow n = \sqrt[n]{n-2} \Rightarrow n = 1$$

چون در (n) f برای n بزرگتر از 1 به نفع است

هر بزرگتر از 1 برای دامنه g(n) به نفع است



Samsung Quad Camera

گالکسی با Galaxy A31